

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
11 March 2004 (11.03.2004)

PCT

(10) International Publication Number  
**WO 2004/020729 A1**

- (51) International Patent Classification<sup>7</sup>: **D06M 13/467**, 13/00, 13/224, D21H 17/07
- (21) International Application Number: PCT/EP2003/009164
- (22) International Filing Date: 19 August 2003 (19.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 02405723.4 27 August 2002 (27.08.2002) EP
- (71) Applicant (for all designated States except US): CIBA SPECIALTY CHEMICALS HOLDING INC. [CH/CH]; Klybeckstrasse 141, CH-4057 Basel (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KOLLER, Stefan [CH/CH]; Zelgliring 31, CH-4433 Ramllinsburg (CH). HALL-GOULLE, Véronique [FR/CH]; Ramstetweg 19, CH-4143 Dornach (CH).
- (54) Title: METHOD FOR DELIVERING BIOLOGICALLY ACTIVE SUBSTANCES
- (57) Abstract: The present application relates to a method for the controlled and/or slow release of a biologically active hydroxyl group-containing substance on a substrate which comprises reacting said hydroxyl group containing substance subsequently with a halogen-substituted aliphatic carboxylic acid halide and either a diamine containing at least one tertiary amino group or a heterocyclic aromatic amine, applying the thus obtained water-soluble ester to the substrate and finally hydrolysing the ester on the substrate.
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/020729 A1